

# Specifications



## Eaton 072733

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 0.12 kW, 0.4 - 0.63 A, Screw terminals

### General specifications

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>PRODUCT NAME</b> | Eaton Moeller® series PKZM0 Motor-protective circuit-breaker |
|---------------------|--------------------------------------------------------------|

|                       |        |
|-----------------------|--------|
| <b>CATALOG NUMBER</b> | 072733 |
|-----------------------|--------|

|                   |            |
|-------------------|------------|
| <b>MODEL CODE</b> | PKZM0-0,63 |
|-------------------|------------|

|            |               |
|------------|---------------|
| <b>EAN</b> | 4015080727330 |
|------------|---------------|

|                             |       |
|-----------------------------|-------|
| <b>PRODUCT LENGTH/DEPTH</b> | 76 mm |
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|                       |       |
|-----------------------|-------|
| <b>PRODUCT HEIGHT</b> | 93 mm |
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|                      |       |
|----------------------|-------|
| <b>PRODUCT WIDTH</b> | 45 mm |
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| <b>PRODUCT WEIGHT</b> | 0.246 kg |
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|                       |                                                                                                                                                                                                                         |
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| <b>CERTIFICATIONS</b> | UL<br>CE<br>CSA<br>UL 60947-4-1<br>CSA File No.: 165628<br>IEC/EN 60947<br>UL Category Control No.: NLRV<br>CSA Class No.: 3211-05<br>CSA-C22.2 No. 60947-4-1-14<br>VDE 0660<br>IEC/EN 60947-4-1<br>UL File No.: E36332 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Climatic environmental conditions

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>ALTITUDE</b>                                       | Max. 2000 m                                                                    |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>            | 55 °C                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>              | 80 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>            | -25 °C                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b> | 40 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b> | -25 °C                                                                         |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>              | -40 °C                                                                         |
| <b>CLIMATIC PROOFING</b>                              | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |

## Design verification

|                                                                      |        |
|----------------------------------------------------------------------|--------|
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 0.63 A |
|----------------------------------------------------------------------|--------|

|                                                           |     |
|-----------------------------------------------------------|-----|
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b> | 0 W |
|-----------------------------------------------------------|-----|

|                               |                                                                                                                                  |
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| <b>10.10 TEMPERATURE RISE</b> | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|

|                                   |                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------|
| <b>10.11 SHORT-CIRCUIT RATING</b> | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
|-----------------------------------|------------------------------------------------------------------------------------------------|

|                                            |                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b> | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
|--------------------------------------------|------------------------------------------------------------------------------------------------|

|                                  |                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>10.13 MECHANICAL FUNCTION</b> | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
|----------------------------------|----------------------------------------------------------------------------------------------------------|

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| <b>10.2.2 CORROSION RESISTANCE</b> | Meets the product standard's requirements. |
|------------------------------------|--------------------------------------------|

|                                                                 |                                            |
|-----------------------------------------------------------------|--------------------------------------------|
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b> | Meets the product standard's requirements. |
|-----------------------------------------------------------------|--------------------------------------------|

|                                                                                   |                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------|
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b> | Meets the product standard's requirements. |
|-----------------------------------------------------------------------------------|--------------------------------------------|

|                                                                                         |                                            |
|-----------------------------------------------------------------------------------------|--------------------------------------------|
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements. |
|-----------------------------------------------------------------------------------------|--------------------------------------------|

|                                                         |                                            |
|---------------------------------------------------------|--------------------------------------------|
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b> | Meets the product standard's requirements. |
|---------------------------------------------------------|--------------------------------------------|

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| <b>10.2.5 LIFTING</b> | Does not apply, since the entire switchgear needs to be evaluated. |
|-----------------------|--------------------------------------------------------------------|

|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| <b>10.2.6 MECHANICAL IMPACT</b> | Does not apply, since the entire switchgear needs to be evaluated. |
|---------------------------------|--------------------------------------------------------------------|

|                            |                   |
|----------------------------|-------------------|
| <b>10.2.7 INSCRIPTIONS</b> | Meets the product |
|----------------------------|-------------------|

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                 | standard's requirements.                                           |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                         |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                             |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>       | 5.16 W                                                             |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                          | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>        | 1.72 W                                                             |

## Electrical rating

|                                                           |         |
|-----------------------------------------------------------|---------|
| <b>RATED FREQUENCY - MAX</b>                              | 60 Hz   |
| <b>RATED FREQUENCY - MIN</b>                              | 50 Hz   |
| <b>RATED OPERATIONAL CURRENT (IE)</b>                     | 0.63 A  |
| <b>RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ</b> | 0.09 kW |
| <b>RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ</b> | 0.12 kW |
| <b>RATED OPERATIONAL POWER AT AC-3E, 440 V, 50 HZ</b>     | 0.18 kW |
| <b>RATED OPERATIONAL POWER AT AC-3E, 500 V, 50 HZ</b>     | 0.25 kW |
| <b>RATED OPERATIONAL POWER AT AC-3E, 690 V, 50 HZ</b>     | 0.25 kW |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>               | 690 V   |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MIN</b>               | 690 V   |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                   | 0.63 A  |

## Features & functions

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| <b>ACTUATOR TYPE</b>   | Turn button                                                                  |
| <b>FEATURES</b>        | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) |
| <b>FUNCTIONS</b>       | Motor protection<br>Phase failure sensitive                                  |
| <b>NUMBER OF POLES</b> | Three-pole                                                                   |

## General information

|                                               |                                                                                                                                             |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONNECTION</b>                             | Screw terminals                                                                                                                             |
| <b>DEGREE OF PROTECTION</b>                   | IP20<br>Terminals: IP00                                                                                                                     |
| <b>EXPLOSION SAFETY CATEGORY FOR DUST</b>     | PTB 10, ATEX 3013<br>Ex II (2) G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb]<br>Ex II (2) D [Ex tb Db] [Ex pxb Db]                                    |
| <b>LIFESPAN, ELECTRICAL</b>                   | 100,000 operations                                                                                                                          |
| <b>LIFESPAN, MECHANICAL</b>                   | 100,000 Operations                                                                                                                          |
| <b>MOUNTING POSITION</b>                      | Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.                                                                    |
| <b>OPERATING FREQUENCY</b>                    | 40 Operations/h                                                                                                                             |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                                                         |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                                                           |
| <b>PRODUCT CATEGORY</b>                       | Motor protective circuit breaker                                                                                                            |
| <b>PROTECTION</b>                             | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)                                        |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                                                                                   |
| <b>SHOCK RESISTANCE</b>                       | 25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms                                                               |
| <b>SUITABLE FOR</b>                           | Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA)<br>Also motors with efficiency class IE3 |
| <b>TEMPERATURE COMPENSATION</b>               | -25 - 55 °C, Operating range<br>-5 - 40 °C to IEC/EN 60947, VDE 0660<br>≤ 0.25 %/K, residual error for T > 40°                              |

## Switching capacity

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| <b>SWITCHING CAPACITY</b> | 0.63 A, AC-3 up to 690 V<br>0.63 A (3 contacts in series), DC-5 up to 250V |
|---------------------------|----------------------------------------------------------------------------|

## Short-circuit rating

|                                                              |                                                                                                                                                                                              |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>SHORT-CIRCUIT CURRENT</b>                                 | 60 kA DC, up to 250 V DC, Main conducting paths                                                                                                                                              |
| <b>SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)</b>       | 50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA)<br>50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (TYPE E)</b>                 | 50 kA, 600 V/347 V, SCCR (UL/CSA)<br>Accessories required BK25/3-PKZ0-E<br>65 kA, 480 V/277 V, SCCR (UL/CSA)<br>65 kA, 240 V, SCCR (UL/CSA)                                                  |
| <b>SHORT-CIRCUIT RELEASE</b>                                 | Basic device fixed 15.5 x lu<br>± 20% tolerance<br>9.8 A, I <sub>rm</sub>                                                                                                                    |

## Terminal capacities

|                                      |       |
|--------------------------------------|-------|
| <b>STRIPPING LENGTH (MAIN CABLE)</b> | 10 mm |
|--------------------------------------|-------|

|                                                          |                                                                                                                |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>TERMINAL CAPACITY<br/>(FLEXIBLE WITH<br/>FERRULE)</b> | 1 x (1 - 6) mm <sup>2</sup> , ferrule to<br>DIN 46228<br>2 x (1 - 6) mm <sup>2</sup> , ferrule to<br>DIN 46228 |
| <b>TERMINAL CAPACITY<br/>(SOLID)</b>                     | 1 x (1 - 6) mm <sup>2</sup><br>2 x (1 - 6) mm <sup>2</sup>                                                     |
| <b>TERMINAL CAPACITY<br/>(SOLID/STRANDED AWG)</b>        | 18 - 10                                                                                                        |
| <b>TIGHTENING TORQUE</b>                                 | 1.7 Nm, Screw terminals,<br>Main cable                                                                         |

## Trip blocks

**OVERLOAD RELEASE  
CURRENT SETTING - MAX** 0.63 A

**OVERLOAD RELEASE  
CURRENT SETTING - MIN** 0.4 A

**TRIPPING  
CHARACTERISTIC** Overload trigger: tripping  
class 10 A

## Resources

[eaton-motor-starters-  
system-xstart-brochure-  
br03407001en-en-us.pdf](#)

**BROCHURES**  
[eaton-push-in-technology-  
product-overview-  
brochure-br034012-en-  
us.pdf](#)

**CATALOGUES**  
[eaton-product-overview-  
for-machinery-catalogue-  
ca08103003zen-en-us.pdf](#)  
[Product Range Catalog  
Switching and protecting  
motors](#)

[eaton-manual-motor-  
starters-characteristic-  
characteristic-curve-  
009.eps](#)

**CHARACTERISTIC CURVE**  
[eaton-manual-motor-  
starters-characteristic-  
characteristic-curve-  
004.eps](#)

[eaton-manual-motor-  
starters-characteristic-  
characteristic-curve-  
008.eps](#)

**DECLARATIONS OF  
CONFORMITY**  
[eaton-motor-protective-  
circuit-breaker-  
declaration-of-conformity-  
eu251411en.pdf](#)  
[eaton-motor-protective-  
circuit-breaker-  
declaration-of-conformity-  
uk251167en.pdf](#)

**DRAWINGS**  
[eaton-manual-motor-  
starters-pkzm0-  
dimensions-003.eps](#)

|                           |                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <a href="#">eaton-manual-motor-starters-pkz-dimensions.eps</a>                                                                                                      |
|                           | <a href="#">eaton-manual-motor-starters-pkz-dimensions-002.eps</a>                                                                                                  |
|                           | <a href="#">eaton-manual-motor-starters-mounting-3d-drawing-002.eps</a>                                                                                             |
|                           | <a href="#">eaton-manual-motor-starters-pkzm0-3d-drawing-008.eps</a>                                                                                                |
|                           | <a href="#">eaton-manual-motor-starters-pkzm0-3d-drawing-004.eps</a>                                                                                                |
|                           | <a href="#">eaton-general-ie-ready-dilm-contactor-standards.eps</a>                                                                                                 |
| ECAD MODEL                | <a href="#">ETN.072733.edz</a>                                                                                                                                      |
| INSTALLATION INSTRUCTIONS | <a href="#">IL03402034Z</a><br><a href="#">IL03407011Z.pdf</a>                                                                                                      |
| INSTALLATION VIDEOS       | <a href="#">WIN-WIN with push-in technology</a>                                                                                                                     |
| MANUALS AND USER GUIDES   | <a href="#">eaton-motor-protection-pkzm0-mn03402003z-de-de-en-us.pdf</a><br><a href="#">IL122023ZU</a>                                                              |
| MCAD MODEL                | <a href="#">eaton-breakers-mcad-drawings-pkzm0.dwg</a><br><a href="#">DA-CS-pkzm0</a>                                                                               |
| PEP ECO-PASSPORT          | <a href="#">eaton-motor-protective-circuit-breakers-pep-eato-00326-v0101-en.pdf</a>                                                                                 |
| SALES NOTES               | <a href="#">eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf</a>                                                                                 |
| WIRING DIAGRAMS           | <a href="#">eaton-manual-motor-starters-starter-nzm-mccb-wiring-diagram.eps</a><br><a href="#">eaton-manual-motor-starters-transformer-pkzm0-wiring-diagram.eps</a> |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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